

In ———— nal Application No  
PCT/GB2004/001135

IPC 7 G01N27/414 B01L3/00 G01N27/447 G01N33/487

**B. FIELDS SEARCHED**

IPC 7      GO1N      B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

EPO-Internal

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/086162 A (KIM SUN-HEE ;CHO YOON-KYOUNG (KR); LIM GEUN-BAE (KR); PARK CHIN-SU) 31 October 2002 (2002-10-31)	1, 10-16, 22
Y	abstract; figures 2,3,13,14 page 5, line 14 -page 13, line 11 page 15, line 22 -page 16, line 6 page 21, line 30 -page 22, line 7 ----- -/--	28,29, 38-41

**X** Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

16 June 2004

Date of mailing of the international search report

25/06/2004

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Klein, M-0

## INTERNATIONAL SEARCH REPORT

In — .nal Application No  
PCT/GB2004/001135

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BAUMANN W H ET AL: "Microelectronic sensor system for microphysiological application on living cells" SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 55, no. 1, 25 April 1999 (1999-04-25), pages 77-89, XP004175066 ISSN: 0925-4005 the whole document	28,29, 38-41
Y	WO 02/29912 A (SMITH PAUL ;EIDGENOEES TECH HOCHSCHULE (CH); SIRRINGHAUS HENNING ()) 11 April 2002 (2002-04-11) cited in the application the whole document	1,4,21, 27, 30-37, 42-46
Y	EP 0 398 587 A (EMI PLC THORN) 22 November 1990 (1990-11-22) column 1-4; figures 2,5-9	30-37, 42-46
X	ROSSIER J S ET AL: "ENZYME LINKED IMMUNOSORBENT ASSAY ON A MICROCHIP WITH ELECTROCHEMICAL DETECTION" LAB ON A CHIP, ROYAL SOCIETY OF CHEMISTRY, CAMBRIDGE, GB, vol. 1, no. 2, December 2001 (2001-12), pages 153-157, XP009030699 ISSN: 1473-0197	1,3,5, 13,22, 23,25,26
Y	abstract; figure 1 page 154	1,4,21, 27
X	EP 0 668 500 A (ROSSENDORF FORSCHZENT) 23 August 1995 (1995-08-23) abstract; figure 1	22,24
X	EP 0 633 468 A (ROSSENDORF FORSCHZENT) 11 January 1995 (1995-01-11)  abstract; figure 2D column 1-3	1-3, 5-11, 17-20,47

# INTERNATIONAL SEARCH REPORT

In International Application No  
PCT/GB2004/001135

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02086162	A	31-10-2002	KR 2002082357 A	31-10-2002
			KR 2002090734 A	05-12-2002
			KR 2003048178 A	19-06-2003
			CN 1461350 T	10-12-2003
			EP 1392860 A1	03-03-2004
			WO 02086162 A1	31-10-2002
			US 2003102510 A1	05-06-2003
WO 0229912	A	11-04-2002	AU 9208401 A	15-04-2002
			CN 1475036 T	11-02-2004
			EP 1323196 A1	02-07-2003
			WO 0229912 A1	11-04-2002
EP 0398587	A	22-11-1990	AT 112652 T	15-10-1994
			DE 69013056 D1	10-11-1994
			DE 69013056 T2	11-05-1995
			EP 0398587 A2	22-11-1990
			US 5037779 A	06-08-1991
EP 0668500	A	23-08-1995	DE 4405004 A1	24-08-1995
			EP 0668500 A2	23-08-1995
EP 0633468	A	11-01-1995	DE 4318407 A1	08-12-1994
			DE 59408651 D1	30-09-1999
			EP 0633468 A2	11-01-1995